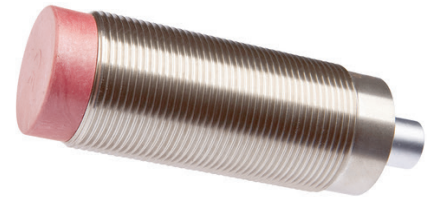


IN300240

INDUCTIVE SENSORS • ENLARGED AMBIENT TEMPERATURE

Inductive proximity switches are contact-free sensors. They detect all conductive metals, regardless of whether they move or not. The achievable sensing range of the devices depends on the object material and its dimensions. The vibration-resistant sensors can be approached laterally or frontally. Inductive proximity switches are used for presence detection (e.g. goods carriers), positioning (e.g. dampers), counting (e.g. nuts /bolts), speed detection (e.g. for cog wheels), on conveyor systems (e.g. hose feedings) or distance measurements (e.g. press-in checking) of metallic objects.



MECHANICAL FEATURES

Active area material of sensor	Vectra®
Ambient temperature	0 °C ... 180 °C
Degree of protection (IP)	IP50
Housing design	Cylinder, screw-thread
Housing material	Stainless steel 1.4305
Increased ambient temperatures > 80°C	+
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	-
Sensor length	92 mm
Thread length	60 mm
Thread pitch	1.5 mm
Thread size, metric	30

ELECTRICAL FEATURES

Cascadable	-
Correction factor (aluminum)	0.3
Correction factor (brass)	0.4
Correction factor (copper)	0.2
Correction factor (St37)	1
Correction factor (stainl. steel)	0.7
Hysteresis	15 %
Max. output current	150 mA
No-load current	15 mA
Norm measuring plate	30x30x1
Readiness delay	6 ms
Relative repeat accuracy	3 %
Residual ripple	10 %
Response time	2.5 ms
Reverse polarity protection	+
Short-circuit protection	+
Suitable for safety functions	-
Supply voltage	10 V ... 35 V
Switching distance	15 mm

ELECTRICAL FEATURES

Switching frequency	200 Hz
Type of electrical connection	Lemo-connector
Type of switching function	Normally closed contact
Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC
With monitoring function of downstream devices	-

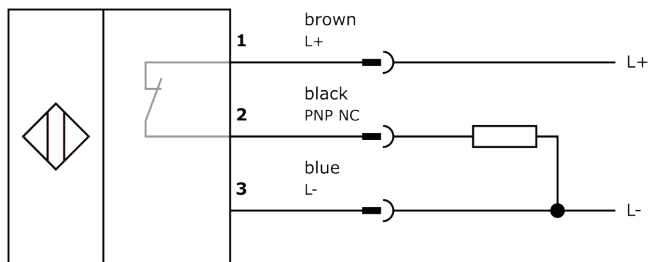
Other

Packaging dimensions	43.0mm x 43.0mm x 105.0mm
Shipping weight	
Tariff code	85365019

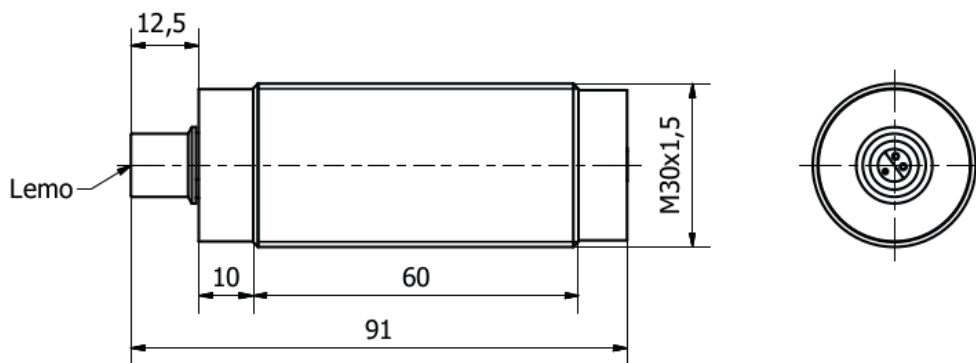
Classification

ipf product group	202
eClass 8.0	27270101
eClass 9.0	27270101
eClass 9.1	27270101
ETIM-5.0	EC002714
ETIM-6.0	EC002714
ETIM-7.0	EC002714

Connection



Dimensional drawing



Installation



Mounting / installation may only be carried out by a qualified electrician!

Disposal



Software

Please download the software or driver required for operating your new device on our homepage: www.ipf.de

Safety warnings

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

Never use these devices in applications where the safety of a person depends on their functionality.

LED lighting systems can generate intensive UV radiation, which can damage your eyes in case of improper use. The manufacturer cannot be held responsible for damages that result from improper use or connection.